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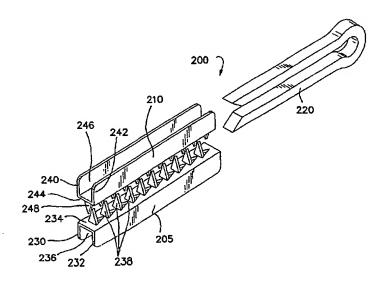
before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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(54) Title: SURGICAL STAPLE-CLIP AND APPLIER



(57) Abstract: A surgical staple-clip including a clip component (210, 205) and a securing member (220) is used in a wide range of surgical procedures. The staple-clip may be introduced to a surgical site in an un-assembled condition through a small port or trocar An applier for the staple-clip comprising a pair of opposed jaw-like channels is provided to position and apply the clip component and the securing member. The clip component is positioned around a target tissue and is compressed or clamped upon the tissue using only the force required for a specific surgical procedure such as occlusion, ligation, or fixation When the clip component is properly applied, the securing member is urged forward and over the clip component to secure the staple-clip

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US03/40318

A. CLASSIFICATION OF SUBJECT MATTER IPC(7): A61B 17/08 US CL: 606/157 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 606/157, 151, 158, 213, 219-221; 24/66.13				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap	opropriate, of the relevant passages	Relevant to claim No.	
х	US 5,947,980 A (JENSEN et al) 07 September 1999 2, lines 40-60		1-6, 8-13	
х	US 5,843,101 A (FRY) 01 December 1998 (01.12 1998), See figure 5; Column 4, lines 1-9			
х	US 6,325,810 B1 (HAMILTON et al.) 04 December 2001, See figure 12; Column 3, lines 1 22-35			
) 				
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	documents are listed in the continuation of Box C	See patent family annex.	Total Silver Inc. on a design	
	pecial categories of cited documents	"T" later document published after the inte date and not in conflict with the applie	ation but cited to understand the	
 A* document defining the general state of the art which is not considered to be of particular relevance X.		principle or theory underlying the invention X: document of particular relevance; the claimed invention cannot be		
	plication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone	red to involve an inventive step	
'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	when the document is documents such combination	
O, qoenweur	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	e an	
'P' document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report		
26 May 2004	(26.05.2004)	Authorized officer	1/1/10/12	
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Commissioner for Patents		Bradford C Pantuck		
P.O. Box 1450 Alexandria Virginia 22313-1450		Telephone No (703) 308-0858		
Facsimile No. (703) 305-3230				

INTERNATIONAL SEARCH REPORT				
BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACT This application contains the following inventions or groups of inventions, which a concept under PCT Rule 13 1. In order for all inventions to be examined, the app	are not so linked as to form a single general inventive			
Group 1, Claims 1-13 and 22-30 drawn to two tissue engaging members with three walls.				
Group 2, Claims 14-21 drawn to tissue penetrating elements with a deformable connector				
Group 3, Claims 31-34 drawn to a clip applier with a thumb mechanism				
Group 4, Claims 35-38 describe a clip with a latch				
Group 5, Claims 39-41 deal with a clamp with a tubular section and a wire.				
Group 6, Claims 42-43 set forth a staple and a clip				
The inventions listed as Groups 1-6 do not relate to a single general inventive concept under PCT Rule 13 1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Each invention has a separate inventive concept, as described above. Separate inventions require separate searches because of the burden required by the Examiner.				
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PCT/US03/40318

PATENT COOPERATION TRE. Y

From the INTERNATIONAL BUREAU

PCT

To

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